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### [1. OSD13-C02: A Semantic Technology for Materials Design and Development](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate the foundational elements required to create a semantic technology for materials design and development. DESCRIPTION: Several foundational elements required to achieve Sir Tim Berners-Lee's vision for a semantic web are in place and available to the materials community. The semantic web, sometimes referred to as the web-of-data, focuses on ontologies as well ...

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### [2. OSD11-IA6: Active Software Defense to Reduce Threat Capability Effectiveness](#)

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems OBJECTIVE: Develop innovative software protection technology containing the ability to support the active defense of critical software applications.

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### [3. OSD11-CR2: Adaptive Desktop Trainer for ISR Imagery Analysis Based on Contextual Factors](#)

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems, Human Systems OBJECTIVE: Develop an adaptive desktop training device with underlying learning management system (LMS) architecture to train ISR imagery analysis for better decision making by warfighters.

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### [4. OSD11-CR1: Adaptive, individualized training assessment capability \(AITAC\)](#)

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems, Human Systems OBJECTIVE: The objective of this topic is to develop and implement a technique for building individualized representations of trainee performance that can be used to assess current performance and to forecast future training needs.

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### [5. OSD13-PR4: Advanced Durability Systems for UAS Propulsion](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Improve UAS engine durability by applying advanced designs/materials for bearing, housing, and rotating components/systems. DESCRIPTION: UAS propulsion systems currently suffer from durability issues resulting in frequent overhauls. Incorporating advanced durability systems could lead to longer durations between engine overhaul times and increased engine life, resulting in a lar ...

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**6. [OSD12-IA5: Advanced Indications and Warnings \(I & W\) via Threat Feed Aggregation](#)**

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Develop an indications and warnings threat feed aggregation with weighted scoring to provide DoD with (near) real-time information on adversaries, to include forewarning of enemy actions or intentions DESCRIPTION: Indications and Warnings (I & W) are intelligence based activities that are intended to detect and report on time-sensitive intelligence information of foreign developments ...

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**7. [N113-181: Advanced Medium-Voltage, High-Power Charging Converter for Pulsed Power Applications](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Ground/Sea Vehicles, Electronics ACQUISITION PROGRAM: PMS 320, Electric Ship Office

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**8. [OSD13-HS1: Advanced Programming and Teaching Interfaces for Autonomous System Control](#)**

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop interface(s) to allow users to "teach" or program robotic manipulation and mobility through virtual simulation and through real-world demonstration which the robot can apply autonomously in various situations. DESCRIPTION: It is not likely that an autonomous system can be programmed with all the information it requires to perform every mission or every variation of every cont ...

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**9. [SB113-004: Advanced Propellants Capable of Controllable and Regulated Burns](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes, Weapons

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**10. [OSD13-PR2: Advanced Sealing Concepts for Small Heavy-fuel, Remotely Piloted Aircraft Propulsion Systems](#)**

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop sealing technologies for heavy fuel engines for Remotely Piloted Aircraft (RPA). The technology should address sealing in engine classes of reciprocating and rotary engines for improved durability. DESCRIPTION: Shortfalls with existing RPA systems include durability issues associated with engine seals. Two key RPA systems in the DoD inventory are the USAF's Predator and U ...

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